

State of Louisiana  
Department of Transportation and Development (DOTD)  
Materials and Testing Section Qualification Procedure  
for  
Qualified Products List 66

**PLASTIC CULVERT PIPE AND JOINT SYSTEMS**

**MATERIAL SPECIFICATION REFERENCE:**

DOTD Standard Specifications, Subsection 1006.07.

This reference relates to the use of plastic culvert pipe as culverts or storm drains. This list includes the type of pipe qualified, the name of the pipe the pipe manufacturer, the diameters of the pipe approved, the joint system utilized and the approved joint types tested in accordance with Subsection 1006.05.

**PRELIMINARY REQUIREMENTS:**

Qualified Product Evaluation Form

Submit a standard "Qualified Product Evaluation Form" to the DOTD Materials and Testing Section Coordinator listed below, along with a letter requesting evaluation for the Qualified Products List.

Product Literature

Include with the submittal product literature regarding specification conformance, manufacturing process, raw materials, available diameters, joint system and materials, installation instructions, etc. The manufacturer shall also submit a diagram of each diameter of pipe to be qualified which shows all dimensions of diameter, wall thickness, rib height and thickness (if applicable), rib or corrugation spacing, corrugation height and width (if applicable), outside diameter, etc. The manufacturer shall submit dimensional tolerances for all dimensions. The DOTD Hydraulic Section will determine if the pipe will meet AASHTO design requirements using the minimum material cell classification properties and all profile data provided by the manufacturer. The manufacturer shall also submit a detailed description of the manufacturing facility's quality control plan.

Sample (to be furnished at no cost)

The manufacturer shall submit a .7 meter (two foot) section of 450 mm (18 inch) diameter pipe with joint system to the DOTD coordinator for visual and laboratory examination. The manufacturer shall submit the proposed joint material for testing. The manufacturer shall also be aware that physical qualification tests shall be performed on every diameter of pipe to be qualified. The manufacturer will be required to provide pipe and material for the hydrostatic joint testing and conduct the hydrostatic test in the presence of DOTD personnel or AASHTO National Transportation Product Evaluation Program (NTPEP) representative. All qualification tests done by NTPEP or DOTD and all material used in testing shall be provided at no cost.

### TEST REQUIREMENTS:

The manufacturer shall submit their product to the AASHTO National Transportation Product Evaluation Program (NTPEP). If NTPEP has not adopted a work plan for your particular product, please contact us for an alternative method of evaluation.

## AASHTO NTPEP Testing:

Results obtained by the AASHTO NTPEP will be used in the evaluation of this material.

The contact person affiliated with AASHTO NTPEP is:

NTPEP Coordinator Ph: 202/624-3695 Fax: 202/624-5806  
AASHTO National Transportation Products Evaluation Program  
444 N. Capitol St. N.W.  
Suite 249  
Washington, D.C. 20001

For detailed information, refer to the Operational Procedures of the AASHTO NTPEP available from the Coordinator.

### Total Evaluation Time

If applying by NTPEP, a final report will be received after the evaluation period. Exact deadline dates and details for submittals should be obtained from the NTPEP Coordinator.

**GENERAL:**

Upon completion of the evaluation, the submitter will be notified in writing concerning the results of the evaluation and whether the product will or will not be added to the Qualified Products List. The Department reserves the right to reevaluate any product at any time. The manufacturer shall notify the Department of any material process or dimensional changes. These changes may necessitate requalification. The manufacturer is hereby notified that the pipe shall be identified by lot number which reflects production date, shift produced, etc.

### PROJECT SAMPLE REQUIREMENTS:

A certificate of analysis showing test properties and lot numbers shall accompany each delivery. The DOTD Construction Fabrication Section shall be allowed to dimensionally inspect each lot of pipe at the project site, or at the manufacturers or suppliers storage facility. Additionally, if requested by DOTD personnel, coupons shall be allowed to be cut from each diameter for laboratory analysis.

**DISQUALIFICATION:**

Any deviation in performance from the original sample may result in removal of the product from the qualified list.

**REQUALIFICATION:**

Any product which has been disqualified and removed from the Qualified Products List will be considered for reevaluation only after submission of a formal request along with acceptable evidence that the problems causing the disqualification have been solved.

**DOTD MATERIALS AND TESTING SECTION COORDINATOR:**

Jason Davis  
Special Testing Engineer  
DOTD Materials and Testing Section  
5080 Florida Blvd.  
Baton Rouge, La. 70806-4123  
(225) 248-4131

Approved 07-07-04

N. DOUG HOOD, JR., P. E.  
DOTD MATERIALS ENGINEER ADMINISTRATOR